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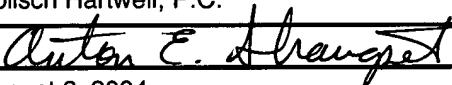
## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

<b>PATENT &amp; TRADEMARK OFFICE</b> <b>U.S. DEPARTMENT OF COMMERCE</b>	Application Number	10/690,654	
	Filing Date	October 21, 2003	
	First Named Inventor	Satoshi Ishi	
	Art Unit	3722	
	Examiner Name	Willmon Fridie Jr.	
Total Number of Pages in This Submission	11	Attorney Docket Number	SHX 343

<b>ENCLOSURES (Check all that apply)</b>		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): English abstract of priority Japanese Application No. 07-084929, return postcard.
Remarks		

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Anton E. Skaugset Kolisch Hartwell, P.C.
Signature	
Date	August 6, 2004

### CERTIFICATE OF TRANSMISSION/MAILING

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Typed or printed name	Suzanne Werner	
Signature		Date
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of  
SATOSHI ISHII AND TAKESHI WATANABE Date : August 6, 2004  
Examiner : Willmon Fridie Jr.  
Serial No. : 10/690,654 Group Art Unit: 3722  
Filed : October 21, 2003 Our Docket : SHX 343  
For : BALL END MILL

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313

Sir:

## **RESPONSE TO OFFICIAL ACTION**

Please consider the following amendments and remarks, in response to the Office action dated May 6, 2004.

**Amendments to the claims** begin on page 2 of this paper.

**Remarks** begin on page 4 of this paper.